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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/692,169	10/23/2003	William Kress Bodin	AUS920030676US1	1933	
34533	7590 08/11/2006	EXAMINER		INER	
INTERNATIONAL CORP (BLF) c/o BIGGERS & OHANIAN, LLP P.O. BOX 1469			NGUYEN,	nguyen, cuong h	
			ART UNIT	PAPER NUMBER	
AUSTIN, TX	AUSTIN, TX 78767-1469				
			DATE MAILED: 08/11/2006	DATE MAILED: 08/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/692,169	BODIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	CUONG H. NGUYEN	3661			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 27 Ma	Responsive to communication(s) filed on <u>27 May 2005</u> .				
<u> </u>	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the m					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-33 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/18/05,3/27/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

- 1. This Office Action is the answer to the IDS received on 5/27/2005, which paper has been placed of record in the file.
- 2. Claims 1-33 are pending in this application.

Drawings

3. The submitted drawings are acceptable for examining purposes.

Claim Rejections - 35 USC § 112

4. Claims 1-33 are objected to because of the following informalities in independent claims: "unmanned aerial vehicle (UAV)" should be used instead of just "UAV".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 5. Claims 12, and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. That description is: "means for piloting the UAV" (a low level block as "Piloting the UAV to the way point in accordance with a navigation algorithm 410" in Figure 4 or, "Co-pilot.TM. from FMA" in para. [0060] is not proper for a claimed feature of "means for piloting").
- 6. Dependent claims 13-11, and 24-33 are rejected also because they incorporate above deficiencies from their parent claims 12, and 23.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

7. Independent claims 1, 12, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Arts (here in after AAPAs), in view of DeLorme et al (US Pat. 5,986,604).

AAPAs teach about remotely controlling an UAV; the applicants also show a disadvantage of the prior art is the use of a camera to control an UAV (see the specification, the background portion).

However, DeLorme et al. teach about not using a camera to guide an object with a computer screen (GUI) map pixel to Earth's coordinates that represents a waypoint for navigation, the pixel having a location on the computer screen (GUI) (see DeLorme et al., Fig.2 and col.30, lines 19-25, and col. 37 lines 8-12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to implement AAPAs' knowledge with the teachings of DeLorme et al. in order to remotely control an UAV without using a camera because it is simpler, and more accurate to remotely navigation an object with short commands by piloting with coordinates of waypoints and a destination.

Conclusions

- 8. Pending claims are not patentable.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759. The examiner can normally be reached on 9:30 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

CUONG/H. NGUYEN

Primary Examiner
Art Unit 3661